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#### PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 44046.203.15.3

BOND et al.

Application No.:

10/724,485

Filed:

November 28, 2003

Group Art Unit: 1775

For:

TRANSPARENT ARTICLE HAVING PROTECTIVE SILICON NITRIDE FILM

# **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. Copies of the references listed are of record in Application No. 09/189,284, filed November 10, 1998 (now U.S. Patent No. 6,673,438, issued January 6, 2004), from which the present application derives priority. In accordance with 37 CFR §198(d), applicant is not enclosing additional copies of these references. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This information is being filed before the mailing date of a first Office Action on the merits. No certification or fee is required.

By submitting these references, Applicant does not admit that the references are prior art to or material to this application, and reserves the right to establish that any reference is



not prior art. Applicant does not represent that the references have been reviewed in detail; there may be details in the references of which Applicant is unaware.

Respectfully submitted,

John F. Dolan

Registration No. 45,382

Customer No. 22859 Fredrikson & Byron, P.A. 4000 Pillsbury Center 200 South Sixth Street Minneapolis, MN 55402-1425 USA

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Please grant any extension of time necessary for entry; charge any fee due to Deposit Account No. 06-1910.

#### **CERTIFICATE OF MAILING**

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ATTY. DOCKET NO. 44046.203.15.3

SERIAL NO.

10/724,485

INFORMATION DISCLOSURE CITATION

APPLICANT

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(Use several sheets if necessary)

Bond

FILING

GROUP

28 November 2003

1775

#### **U.S. PATENT DOCUMENTS**

3,721,584 3,885,855 3,895,155 3,996,461	3/1973 5/1975 7/1975	Diem  Gross  Shukuri	359 359	580 360	
3,895,155	<u> </u>			360	•
	7/1975	Shukuri			
3,996,461			428	206	
	12/1976	Sulzbach	250	214	
4,166,018	8/1979	Chapin	204	192	
4,187,336	2/1980	Gordon	428	34	
4,262,056	4/1981	Hubly	428	446	
4,308,316	12/1981	Gordon	428	336	
4,319,803	3/1982	Burmeister	385	128	
4,377,613	3/1983	Gordon	428	212	
4,515,151	5/1985	Slemmons	126	709	
4,546,050	10/1985	Amberger	428	630	
	4,187,336 4,262,056 4,308,316 4,319,803 4,377,613 4,515,151	4,187,336       2/1980         4,262,056       4/1981         4,308,316       12/1981         4,319,803       3/1982         4,377,613       3/1983         4,515,151       5/1985         4,546,050       10/1985	4,187,336       2/1980       Gordon         4,262,056       4/1981       Hubly         4,308,316       12/1981       Gordon         4,319,803       3/1982       Burmeister         4,377,613       3/1983       Gordon         4,515,151       5/1985       Slemmons	4,187,336       2/1980       Gordon       428         4,262,056       4/1981       Hubly       428         4,308,316       12/1981       Gordon       428         4,319,803       3/1982       Burmeister       385         4,377,613       3/1983       Gordon       428         4,515,151       5/1985       Slemmons       126	4,187,336       2/1980       Gordon       428       34         4,262,056       4/1981       Hubly       428       446         4,308,316       12/1981       Gordon       428       336         4,319,803       3/1982       Burmeister       385       128         4,377,613       3/1983       Gordon       428       212         4,515,151       5/1985       Slemmons       126       709

#### FOREIGN PATENT DOCUMENTS

						TRANSLATION	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	WO 9320256	10/1993	PCT ·				·
	EP 0456488	11/1991	ЕР				
	EP 0500445	8/1992	ЕР				
	EP 0546302	6/1993	EP				
	EP 0567735	11/1993	EP				

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AIRCO Coating Technology Symposium Proceedings, (Mar. 1990).

Pawlewicz et al., "Multilayer Optical Coating Fabrication by D.C. Magnetron Reactive Sputtering" Proc. SPIE-Int. Soc. Opt. Eng. (1986).

**EXAMINER** 

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

				ATTY. DOCKET NO 44046.203.15	SERIAL NO. 10/724,485			
	(Use several sheets if necessary)			APPLICANT Bond				
				FILING 28 November 2003	-	GROUP	775	
	U.S.	PATENT I	DOCU	MENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING IF APPRO	DATE PRIATE
	4,609,267	9/1986	Degu	chi	351	163		
	4,649,088	3/1987	Mits	ui	428	697		
	4,716,086	12/1987	Gille	гу	428	630		
	4,780,372	10/1988	Trac	/	428	428		
	4,786,563	11/1988	Gille	ry.	428	630		
	4,796,291	1/1989	Maki	no	455	415		
	4,806,220	2/1989	Finle	у	204	192.27		
	4,826,525	5/1989	Ches	worth	65	60.2		
	4,828,346	5/1989	Jacol	osen	359	360		
	4,885,186	12/1989	Groli	g	427	539		
	4,861,669	8/1989	Gille	ry	428	434		
	4,885,186	12/1989	Groli	g	427	539	ı	
	FOREIG	GN PATEN	T DO	CUMENTS				
							TRANSL	ATION
	DOCUMENT NUMBER	DATE	ļ	COUNTRY	CLASS	SUBCLASS	YES	NO
	EP 0 718 250	6/1996	EP					
	FR 2579197	9/1986	FR					
	JP 7232369	5/1972	JP					
	JP 56104928	1/1983	JP					
	JP 63100043	2/1988	JP					
a	OTHER DOCUMENTS (In	ncluding Au	ithor, '	Γitle, Date, Pertinent Pa	ages, Etc.)	·		
Beister et al., "Advanced Layer Systems and Coating Techniques for Large-Area Glass Coatings by High-Rate Sputtering" Glastech. Ber. (1993) pp. 175-183.								
	Koss et al., "Design of Selective Transmissiv	e/reflective (	Coating	s for Windows" J. Vac. So	ci. Technol., A	A (1992) pp. 1892-18	396.	
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	al if reference considered, whether or not citation is in e copy of this form with next communication to applica		with N	1PEP 609; Draw line thro	ugh citation i	f not in conformance	and not	

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	U.S.	PATENT I	OCU	MENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING IF APPRO	DATE PRIATE
	4,900,633	2/1990	Gille	ry	428	432		
	4,902,081	2/1990	Huffe	er	359	360	•	
	4,920,006	4/1990	Gille	гу	428	432		
	4,938,857	7/1990	Gille	гу	204	192.27	-	
	4,946,712	8/1990	Good	lman	427	166		•
	4,965,121	10/1990	Your	ng	359	360		
	5,000,528	3/1991	Kawa	akatsu	359	585		
	5,059,295	10/1991	Finle	у	204	192.27		
	5,091,244	2/1992	Bion	ard	428	216		
	5,110,662	5/1992	Depa	uw	428	192		
	5,119,231	6/1992	Nelso	on	359	359		
	5,135,808	8/1992	Kimo	ock	428	336		
	FOREIG	GN PATEN	T DO	CUMENTS				
						TRANSL	ATION	
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	YES	NO
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							,	
·	OTHER DOCUMENTS (In	ncluding Au	thor,	Title, Date, Pertinent Pa	iges, Etc.)			
	McCarthy et al., "Deposition of Dielectric Op Symp. Proc. (1989).	ptical Coating	gs: A M	icrostructural Study of the	e Deposited L	ayers and Interfaces"	Mater. Re	s. Soc.
EXAMINER	DAT	E CONSID	ERED		<u> </u>			
	I if reference considered, whether or not citation is in copy of this form with next communication to applications.		with M	1PEP 609; Draw line throu	igh citation if	not in conformance	and not	

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	INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)			APPLICANT Bond					
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	U.S.	PATENT I	ocu	OCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING IF APPRO		
	5,153,054	10/1992	Depa	uw					
	5,168,003	12/1992	Proso	cia					
	5,190,807	3/1993	Kimo	ock					
	5,217,753	6/1993 Goodn		lman					
	5,234,748	8/1993 Demir		iryont					
	5,239,406	8/1993 Lynai		m					
	5,242,560	9/1993 Lingl		le					
	5,248,545	9/1993	Prose	cia		:	:	·	
	5,254,392	10/1993	Burn	s et al.					
	5,262,633	11/1993	Kasa	i et al					
	5,279,722	1/1994	Szcy	zbowski					
	5,296,302 3/19		O'Shaughnessy 428		428	472			
•	FOREIG	GN PATEN	T DO	CUMENTS					
							TRANSLATION		
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	YES	NO	
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	U.S. I	PATENT I	DOCU	MENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING IF APPROI	1
	5,298,048	3/1994	Lingl	е				
	5,318,685	6/1994	O'Sh	aughnessy				
	5,342,676	8/1994	Zagdo	oun				
	5,344,718	9/1994	Harti	g				
	5,376,455	12/1994	Harti	g				
	5,377,045	12/1994	Wolfe	e				
	5,398,133	3/1995	Tsai e	et al.				
	5,411,794	5/1995	Kawa	aguchi				
	5,418,019	5/1995	Chen					
	5,425,861	6/1995	Harti	g				
	5,433,988	7/1995	Fuku	da				
	5,510,173	4/1996	Pass					
	FOREIG	JN PATEN	VT DO	CUMENTS				
							TRANSLA	ATION
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	U.S	S. PATENT	DOCI	UMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING IF APPRO			
	5,520,996	5/1996	Balia	an				-		
	5,521,765	5/1996	Wolf	fe						
	5,543,229	8/1996	Ohsa	aki						
	5,552,180	9/1998	Finle	ey						
	5,705,278	1/1998	Gille	ry						
	6,274,244	8/2001	Finle	ey						
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